Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): Radio communications apparatus comprising:

a quadrature modulator for making the transition of the phase of a modulated wave via a in-phase component and a quadrature component;

a first voltage-controlled oscillator for outputting a first transmission signal;

a second voltage-controlled oscillator;

a first mixer for frequency-converting the first transmission signal based on the output signal of the second voltage-controlled oscillator;

a phase comparator for comparing the phase of the output signal of the quadrature modulator with the phase of the output signal of the first mixer;

a low-pass filter for filtering the component below a predetermined frequency of the output signal of the phase comparator and supplying the resulting signal to the frequency control terminal of the first voltage-controlled oscillator; ~~and~~

a first band-pass filter for outputting a signal obtained by filtering the component in a predetermined

frequency band of the output signal of the quadrature modulator as a second transmission signal;

a first transmitter for amplifying the first transmission signal and transmitting the resulting signal via a first antenna; and

a second transmitter for amplifying the second transmission signal and transmitting the resulting signal via a second antenna.

Claim 2 (currently amended): Radio communications apparatus ~~according to claim 1, further~~ comprising:

a quadrature modulator for making the transition of the phase of a modulated wave via a in-phase component and a quadrature component;

a first voltage-controlled oscillator for outputting a first transmission signal;

a second voltage-controlled oscillator;

a first mixer for frequency-converting the first transmission signal based on the output signal of the second voltage-controlled oscillator;

a phase comparator for comparing the phase of the output signal of the quadrature modulator with the phase of the output signal of the first mixer;

a low-pass filter for filtering the component below a predetermined frequency of the output signal of the phase comparator and supplying the resulting signal to the

frequency control terminal of the first voltage-controlled oscillator;

a first band-pass filter for outputting a signal obtained by filtering the component in a predetermined frequency band of the output signal of the quadrature modulator;

a third voltage-controlled oscillator;

a second mixer for frequency-converting the output signal of the first band-pass filter based on the output signal of the third voltage-controlled oscillator; and

a second band-pass filter for outputting a signal obtained by filtering the component in a predetermined frequency band of the output signal of the second mixer as a second transmission signal.

Claim 3 (currently amended): Radio communications apparatus ~~according to claim 1, further~~ comprising:

a quadrature modulator for making the transition of the phase of a modulated wave via a in-phase component and a quadrature component;

a first voltage-controlled oscillator for outputting a first transmission signal;

a second voltage-controlled oscillator;

a first mixer for frequency-converting the first transmission signal based on the output signal of the second voltage-controlled oscillator;

a phase comparator for comparing the phase of the output signal of the quadrature modulator with the phase of the output signal of the first mixer;

a low-pass filter for filtering the component below a predetermined frequency of the output signal of the phase comparator and supplying the resulting signal to the frequency control terminal of the first voltage-controlled oscillator;

a first band-pass filter for outputting a signal obtained by filtering the component in a predetermined frequency band of the output signal of the quadrature modulator;

a second mixer for frequency-converting the output signal of said first band-pass filter based on the output signal of the second voltage-controlled oscillator; and

a second band-pass filter for outputting a signal obtained by filtering the component in a predetermined frequency band of the output signal of the second mixer as a second transmission signal.

Claim 4 (canceled)

Claim 5 (original): Radio communications apparatus according to claim 2, further comprising:

a first transmitter for amplifying a first transmission signal output from the first

voltage-controlled oscillator and transmitting the resulting signal via an antenna; and

a second transmitter for amplifying a second transmission signal output from the second band-pass filter and transmitting the resulting signal via an antenna.

Claim 6 (original): Radio communications apparatus according to claim 3, further comprising:

a first transmitter for amplifying a first transmission signal output from the first voltage-controlled oscillator and transmitting the resulting signal via an antenna; and

a second transmitter for amplifying a second transmission signal output from the second band-pass filter and transmitting the resulting signal via an antenna.

Amendments to the Drawings:

The attached sheets of drawings includes changes to Figs. 6-9. These sheets, which include Figs. 5-9, replace the original sheets including Figs. 5-9. Figs. 6-9 have been labeled "Related Art".

Attachment: Replacement Sheet